CLAIMS

- A catalyst for purifying exhaust gases, comprising:
 a support comprising at least an oxide comprising cerium;
 and
- a catalytic ingredient loaded on the support; and exhibiting a value of an oxygen sorbing amount with respect to a heat capacity, an oxygen sorbing amount/heat capacity value, falling in a range of from 4×10^{-3} to 8×10^{-3} (g·J⁻¹·K).
- 2. The catalyst set forth in claim 1, wherein the oxygen sorbing amount/heat capacity value falls in a range of from 5 \times 10⁻³ to 7 \times 10⁻³ (g·J⁻¹·K).
- 3. The catalyst set forth in claim 1 or 2, wherein the oxide comprising cerium is a composite oxide comprising ceria.
- 4. The catalyst set forth in claim 3, wherein the composite oxide further comprises zirconia.
- 5. The catalyst set forth in claim 4, wherein the composite oxide has a Ce/Zr atomic ratio falling in a range of from 1/9 to 9/1.
- 6. The catalyst set forth in either one of claims 3 through 5, wherein the composite oxide further comprises at least one element selected from the group consisting of rare-earth elements except cerium.

- 7. The catalyst set forth in claim 6, wherein an amount of the at least one element is from 5 to 20% by weight as oxide with respect to the composite oxide.
- 8. The catalyst set forth in claim 6 or 7, wherein the at least one element is selected from the group consisting of La, Pr, Nd and Sm.
- 9. The catalyst set forth in claim 8, wherein the at least one element is selected from the group consisting of La and Pr.
- 10. The catalyst set forth in either one of claims 1 through 9, wherein the support further comprises a porous oxide.
- 11. The catalyst set forth in claim 10, wherein the porous oxide is alumina.
- 12. The catalyst set forth in either one of claims 1 through 12, wherein the catalytic ingredient in amount of from 20 to 100% by weight thereof is loaded on the oxide comprising cerium.
- 13. A method of evaluating a purifying ability of a catalyst in low temperature regions, the catalyst comprising a support comprising at least an oxide comprising cerium, and a catalytic ingredient loaded on the support, the method comprising the steps of:

_assuming_a_heat_capacity and an oxygen sorbing amount of-

the catalyst; and

evaluating the low-temperature purifying ability of the catalyst to be excellent when a value of the oxygen sorbing amount with respect to the heat capacity, an oxygen sorbing amount/heat capacity value, falls in a range of from 4×10^{-3} to 8×10^{-3} (g·J⁻¹·K).

14. The method set forth in claim 13, wherein the low-temperature purifying ability of the catalyst is evaluated to be more excellent when the oxygen sorbing amount/heat capacity value falls in a range of from 5×10^{-3} to 7×10^{-3} (g·J⁻¹·K).